

FIG. 1

atgcagccgcggcggtcgcgcgcagcagagggcgacgcgagatggcggcagcttcagcggcgcgatctcaggagc
tggtcgtgtcggctaagcaagattggagctactcgtcgtccacctccagctcgcgtaagggtggctgtgcgactgcggcc
atttgtggatggaacagcgggagcaagtgatccccctgtgtgcggggcatggacagctgctctctagagattgctaactg
gaggaaccaccaggagactctcaaataccagtttgatgccttctatggggagaggagtactcagcaggacatctatgcagg
ttcagtgcagcccatcctaaggcacttgctggaaggcgagaatgccagtgtgcttgccctatggaccacaggagctggga
agacgcacacaatgctgggcagcccagagcaacctgggggtgatccgcgggctctcatggacctcctgcagctcacaag
ggaggaggggtgccgagggccggccatggggccctttctgtcaccatgtcttacctagagatctaccaggagaaggtattag
acctcctggaccctgcttcgggagacctggtaatccgagaagactgccgggggaatatcctgattccgggtctctcccaga
agcccatcagtagctttgctgattttgagcggcacttcctgccagccagtcgaaatcggactgtaggagccacccgggtcaa
ccagcgctcctcccgagtcagctgtgtcctcctggtaagggtggaccagcgggaacgtttggccccatttcgccagcgag
agggaaaactctacctgattgacttggtgggtcagaggacaaccggcgcacaggcaacaaggcccttcggctaaaaga
gagtggagccatcaacacctccctgtttgtcctgggcaaagtggtagatgcgtgaatcagggcctccctcgtgtaccttacc
gggacagcaagctcactcgcctattgcaggactctctgggtgggtcagcccacagtatccttattgccaacattgcccctga
gagacgcttctacctagacacagctcctccgactcaacttgctgccaggtccaaggaggtgatcaattga

(SEQ ID NO:1)

FIG. 2

maaggstqrrremaaaaisgagrcrlskigatrppparvrvavrlpfvdgtagasdppcvrgmdscsleianw
mhqetlkyqdfdygerstqqdiyagsvqpilrhlegqnasvlaygptgagkthtmlgspeqpgvipralmdllqltre
egaegrpwalsvtmsyleiyqekvldlldpasgdlviredcrgnilipglsqkpissfadferhflpasnrvtgatrlnqrs
srshavllvkvdqrerlapfrqregklylidlagsednrrtgnkgllrkesgaintslfvlgkvvdalnqglprvpyrdskl
rllqdslggsahsilianiaperrfyldtvsalnfaarskevin*

(SEQ ID NO:2)

FIG. 3

atgcagccgcgggcgggctcgacgcagcagaggcgacgcgagatggcggcagcttcagcggcgggcgatctcaggagc
tggtcgctgtcggctaagcaagattggagctactcgtcgtccacctccagctcgcgtaagggtggctgtgcgactcggcc
atttggatggaacagcgggagcaagtgatccccctgtgtcggggcatggacagctgctctctagagattgctaactg
gaggaaccaccaggagactctcaaataccagtttgatgccttctatggggagaggagtactcagcaggacatctatgcagg
ttcagtgcagcccatcctaaggcacttgctggaaggcgagaatgccagtgcttgctatggaccacaggagctggga
agacgcacacaatgctgggcagcccagagcaacctggggtgatcccggggctctcatggacctctgcagctcacaag
ggaggagggtgccgagggcgccatgggccccttctgtcaccatgtcttacctagagatctaccaggagaaggtattag
acctctggacctgcttcgggagacctggtaatccgagaagactgccgggggaatatcctgattccgggtctctccaga
agcccatcagtagctttgctgatttgagcggcacttctgccagccagtcgaaatcggaclglaggagccacccggctcaa
ccagcgtcctcccgagtcagctgtgtcctctggtaagggtggaccagcgggaacgttggccccatttcgccagcgag
agggaaaactctacctgattgactggctgggtcagaggacaaccggcgcacaggcaacaagggccttcggctaaaaga
gagtgaggccatcaacacctccctgtttgtcctgggcaaaagtggtagatgcgctgaatcagggcctccctcgtgtaccttacc
gggacagcaagctcactcgcctattgcaggactctctgggtggctcagcccacagtatccttattgccaacattgcccctga
gagacgcttctacctagacacagtctccgcactcaactttgctgccaggtccaaggaggtgatcaatcggcctttaccaatg
agagcctgcagcctcatgccttgggacctgttaagctgtctcagaaagaattgcttgggtccaccagaggcgaagagagccc
gaggccctgaggaagaggagattgggagccctgagcccatggcagctccagcctctgcctcccagaaactcagccccct
acagaagctaagcagcatggaccggccatgctggagcgctcctcagcttgaccgtctgcttgcctcccaggggagc
cagggggccccctgttgagtaccccaaagcgagagcggatgggtgctaataagacagtagaagagaaggacctagag
attgagaggcttaagacgaagcaaaaagaactggaggccaagatgttggcccagaaggctgagggaaaaggagaacct
tgtcccacaatgtga

(SEQ ID NO:3)

FIG. 4

mpaaggstqqrremaaaaisgagrcrlskigatrppparvrvavrlpfvdgtagasdppcvrgmdscsleian
wmhqetlkyqfdafygerstqqdiyagsvpilrhlllegqnasvlaygptgagkthtmlgspeqpgvipralmdllqit
reegaegrpwalsvtmsyleiyqekvldlldpasgdlviredcrgnilipglsqkpissfadferhflpasmrvtgatrlnq
rssrshavllvkvdqrerlapfrqregklylidlagednrrtgnkgrlkesgaintslfvlgkvvdalnqglprvpyrds
ltrllqdslggsahsilianiaperrfyldtvsalnfaarskevinrpfneslqphalgpvklsqkellgppeakrargpeee
eigspemaapasasqklsplqklssmdpamlerllsldrllasqgsqgapllstpkremvmlktveekdleierlktk
qkeleakmlaqkaeekenhcptm*

(SEQ ID NO:4)

FIG. 5

Atgggtcgctgtcggctaagcaagattggagctactcgtccacctccagctcgcgtaaggggtggctgtgcgactgcg
gccatttgggatggaacagcgggagcaagtgatccccctgtgtgcggggcatggacagctgctctctagagattgctaa
ctggaggaaccaccaggagactctcaaataccagtttgatgccttctatggggagaggagtactcagcaggacatctatgc
aggttcagtgcagcccacctaaggcacttgctggaagggcagaatgccagtgcttgctatggaccacaggagctg
ggaagacgcacacaatgctgggcagcccagagcaacctgggggatcccggggtctcatggacctcctgcagctcac
aaggaggagggtgccgagggccggccatgggccctttctgtcacatgtcttacctagagatctaccaggagaaggtat
tagacctcctggacctgcttcgggagacctggtaatccgagaagactgccgggggaatatcctgattccgggtctctccc
agaagcccatcagtagctttgctgattttgagcggcacttcctgccagccagtcgaaatcggactgtaggagccacccggc
tcaaccagcgtcctcccgcagtcagctgtgtccttggtcaaggtggaccagcgggaacgtttggccccallcgcagc
gagagggaaaactctacctgattgacttggtcgggtcagaggacaaccggcgcacaggcaacaagggccttcggctaaa
agagagtggagccatcaacacctccctgtttgtcctgggcaaagtggtagatgcgctgaatcagggcctccctcgtgtacct
tatcgggacagcaagctcactcgcctattgcaggactctctgggtgggtcagcccacagtatccttattgccaacattgcccc
tgagagacgcttctacctagacacagtctccgcactcaactttgctgccaggtccaaggaggtgatcaattga

(SEQ ID NO:5)

FIG. 6

m g r c r l s k i g a t r p p p a r v r v a r l r p f v d g t a g a s d p p c v r g m d s c s l e i a n w r n h q e t l k y q f d a f y g e r s t q q d i
y a g s v q p i l r h l l e g q n a s v l a y g p t g a g k t h t m l g s p e q p g v i p r a l m d l l q l t r e e g a e g r p w a l s v t m s y l e i y q e
k v l d l d p a s g d l v i r e d c r g n i l p g l s q k p i s s f a d f e r h f l p a s m r t v g a t r l n q r s s r s h a v l l v k v d q r e r l a p f r q e
g k l y l i d l a g s e d n r r t g n k g l r l k e s g a i n t s l f v l g k v v d a l n q g l p r v p y r d s k l r l l q d s l g g s a h s i l i a n i a p e r r f
y l d t v s a l n f a a r s k e v i n *

(SEQ ID NO:6)

FIG. 7

atgggtcgctgtcggctaagcaagattggagctactcgtcgtccacctccagctcgcgtaagggtggctgtgcgactgcgg
ccatttggatggaacagcgggagcaagtgatccccctgtgtcggggcatggacagctgctctctagagattgctaac
tggaggaaccaccaggagactctcaaataccagtttgatgccttctatggggagaggagtactcagcaggacatctatgca
ggttcagtgcagcccatcctaaggcacttgctggaagggcagaatgccagtgtgcttgccatggaccacaggagctgg
gaagacgcacacaatgctgggcagcccagagcaacctgggggtgatcccggggctctcatggacctctgcagctcaca
agggaggagggtgccgaggccggccatgggccccttctgtcaccatgtcttacctagagatctaccaggagaaggtatt
agacctctggacctgcttcgggagacctggtaatccgagaagactgccgggggaatatcctgattccgggtctctccca
gaagcccatcagtagctttgtgattttgagcggcacttctgccagccagtcgaaatcggactgtaggagccacccggct
caaccagcgtctctcccgcagtcatgtgtgtccttggtcaagggtggaccagcgggaacgtttggccccatttgcagcg
agagggaaaactctacctgattgacttggctgggtcagaggacaaccggcgcacaggcaacaagggccttcggctaaaa
gagagtggagccatcaacacctccctgtttgtcctgggcaaagtggtagatgcgctgaatcagggcctccctcgtgtacctt
atcgggacagcaagctcactcgcctattgcaggactctctgggtggctcagcccacagtatccttattgccaacattgccct
gagagacgcttctacctagacacagtctccgcactcaactttgctgccaggtccaaggaggtgatcaatcggcctttacca
atgagagcctgcagcctcatgccttgggacctgttaagctgtctcagaaagaattgcttggtccaccagaggcaaagagag
cccaggccctgaggaagaggagattgggagccctgagcccatggcagctccagcctctgcctcccagaaactcagcc
ccctacagaagctaagcagcatggacccggccatgctggagcgcctcctcagcttgaccgtctgcttgctcccagggg
agccagggggcccctctgttgagtaccccaaagcgagagcggatggtgctaataagacagtagaagagaaggaccta
gagattgagaggcttaagacgaagcaaaaagaactggaggccaagatgttgcccagaaggctgaggaaaaggagaa
ccattgtcccacaatgtga

(SEQ ID NO:7)

FIG. 8

m g r c r l s k i g a t r p p p a r v r v a r l r p f v d g t a g a s d p p c v r g m d s c s l e i a n w m h q e t l k y q f d a f y g e r s t q q d i
y a g s v q p i l r h l l e g q n a s v l a y g p t g a g k t h t m l g s p e q p g v i p r a l m d l l q l t r e e g a e g r p w a l s v t m s y l e i y q e
k v d l l d p a s g d l v i r e d c r g n i l p g l s q k p i s s f a d f e r h f l p a s m r t v g a t r l n q r s s r s h a v l l v k v d q r e r l a p f r q e
g k l y l i d l a g s e d n r r t g n k g l r l k e s g a i n t s l f v l g k v d a l n q g l p r v p y r d s k l r l l q d s l g g s a h s i l i a n i a p e r r f
y l d t v s a l n f a a r s k e v i n r p f t n e s l q p h a l g p v k l s q k e l l g p p e a k r a r g p e e e e i g s p e p m a a p a s a s q k l s p l q k
l s s m d p a m l e r l l s l d r l l a s q s q g a p l l s t p k r e r m v l m k t v e e k d l e i e r l k t k q k e l e a k m l a q k a e e k e n h c p t
m*

(SEQ ID NO:8)